

ERGON

ERTECH 2120

Revision: 5

MSDS No. EIC040

Date of Preparation: June 28, 2002

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: ERTECH 2120

Chemical Formula: Mixture

CAS Number: Mixture

Other Designations: Asphalt, Clay and Water Emulsion (Contains Oil)

General Use: Trowel Grade Waterproofing

Manufacturer: ERGON Asphalt & Emulsions, Inc. – Technical Coatings Division; P.O. Box 1639; Jackson, MS 39215-1639; Phone (601) 933-3000, Hours of Operation: 8:00 a.m. – 5:00 p.m.; ERGON 24-hr Emergency Phone Number: 1-800-824-2626; CHEMTREC: (800)424-9300

Section 2 – Composition / Information on Ingredients

| Ingredient Name | CAS Number | % vol |
|-------------------|--------------|---------|
| Petroleum Asphalt | 8052-42-4 | 40-50 % |
| Surfactant | 1302-78-9 | 3-5 % |
| Water | 7732-18-5 | 40-50 % |
| Cellulose Fibers | 9004-34-6 | 0.5-5 % |
| Biocide | Mixture | <1 % |
| Other components | Trade Secret | <1 % |

| Ingredient | OSHA PEL | | ACGIH TLV | | NIOSH REL | | NIOSH IDLH |
|-------------------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|-----------------------|
| | TWA | STEL | TWA | STEL | TWA | STEL | |
| Petroleum Asphalt | 5 mg/m ³ | None estab. | .5 mg/m ³ | None estab. | 5 mg/m ³ | None estab. | None estab. |
| Surfactant | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. |
| Water | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. |
| Cellulose Fibers | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. |
| Biocide | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. |
| Other components | 1 mg/m ³ | 2 mg/m ³ | 1 mg/m ³ | 2 mg/m ³ | 1 mg/m ³ | 2 mg/m ³ | 500 mg/m ³ |

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

HMIS

H 1

F 1

R 0

PPE †

†Sec. 8

Potential Health Effects

Primary Entry Routes: Skin contact, inhalation and ingestion.

Target Organs: Nervous System, respiratory tract, skin, eyes.

Acute Effects

Inhalation: This material is not expected to be an immediate inhalation problem.

Eye: Components in this substance are severe irritants.

Skin: Components in this substance are severe irritants to abraded skin.

Ingestion: Systemic toxicity has not been determined; however, it should be practically non-toxic to internal organs if swallowed. This hazard evaluation is based on data from similar materials.

Carcinogenicity: IARC, NTP, and OSHA do not list product as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: Dermatitis or other skin disorders.

Chronic Effects: Prolonged and repeated skin contact may cause skin disorders.

Section 4 - First Aid Measures

Inhalation: This material is not expected to be an immediate inhalation problem, no first aid procedures required.

Eye Contact: Flush thoroughly with water for at least 15 minutes. Remove contact lenses. Seek medical attention

Skin Contact: Wash with soap and water. Do not use solvents or thinners to remove from skin. Seek medical attention if needed.

Ingestion: If swallowed, give water or milk to drink. Do not induce vomiting. Seek medical attention.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Special Precautions/Procedures: Good hygiene should be practiced when handling any petroleum product. The precautions outlined in this MSDS should be followed to minimize personnel exposure. Provide adequate ventilation to keep vapors below allowable exposure levels. Use PPE appropriate for the task.

Section 5 - Fire-Fighting Measures

Flash Point: >450

Flash Point Method: NA

Autoignition Temperature: Asphalt component: >400 °F ASTM E659

LEL: NA

UEL: NA

Flammability Classification: None

Extinguishing Media: Carbon Dioxide, foam, dry chemical and water fog. DO NOT USE WATER.

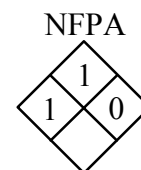
Unusual Fire or Explosion Hazards: Do not store near strong oxidants or open flame. Smoke from fire may be hazardous.

Hazardous Combustion Products: May form toxic materials; carbon dioxide and monoxide, oxides of sulfur, and water vapor.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways. Use a water spray to cool fire-exposed containers. Do not enter any enclosed or confined fire space without proper PPE.

Fire-Fighting Equipment: Use self-contained breathing apparatus.

“Empty” Container Warning: “Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. For work on tanks, refer to OSHA regulation ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding or other contemplated operations.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Remove sources of heat or ignition. Stop spill/leak at source if possible without risk. Confine spill by diking or impoundment. Clean up spill but do not flush to sewer or surface water. Ventilate area and avoid breathing vapors or mists.

Small Spills: Stop spill at source if possible without risk. Isolate and confine by diking, or similar method. Remove discharged material.

Large Spills

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Mix with sand or other non-combustible absorbent material to stabilize.

Regulatory Requirements: Notify local health and pollution control agencies as appropriate. Follow applicable OSHA regulations (29 CFR 1910.120). This material is not a hazardous waste as defined in RCRA. For disposal follow all federal, state, and local regulations regarding hazardous waste.

Section 7 - Handling and Storage

Handling Precautions: Stay upwind to avoid vapors.

Storage Requirements: Do not store near open flame. Ground and bond all transfer and storage equipment. Provide adequate ventilation.

Regulatory Requirements: None known.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Keep containers closed when not in use. DO NOT STORE NEAR HEAT, SPARKS, FLAME OR STRONG OXIDANTS.

Ventilation: Provide general mechanical with local exhaust ventilation systems sufficient to maintain airborne concentrations below recommended ACGIH TLVs and OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. Self-contained, positive-pressure breathing apparatus when used in confined or enclosed space or when exposure limits are exceeded or hydrogen sulfide is unknown or exceeds 20 ppm. Organic vapor respirators can be used with good ventilation when organic vapors are less than 1000 ppm or ten times permissible exposure limit, whichever is less. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes: procedures for selecting respirators; medical evaluations; fit testing; use in routine and emergency situations; cleaning, disinfecting, storing, inspecting, repairing, discarding and maintaining respirators; adequate air quality, quantity and flow; training in respiratory hazards; training in use of respirators; evaluation of effectiveness of respiratory program.

Protective Clothing/Equipment: Wear Chemical resistant gloves as needed to prevent prolonged or repeated skin contact. Chemical resistant goggles and face shields should be used in areas where splashing may occur. Wear protective eyeglasses or safety goggles per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, and smoking.

Section 9 - Physical and Chemical Properties

Physical State: Paste

Appearance and Odor: Brown heavy consistency emulsion with a slight petroleum hydrocarbon odor.

Odor Threshold: No data

Vapor Pressure: Approx. 60 mm Hg at 100 °F

Vapor Density (Air=1): NA

Formula Weight:

Density: 8.60-8.70 lb/gal

Specific Gravity (H₂O=1, at 4 °C): 1.03-1.04

pH: 5.0-7.0

Water Solubility: Partially miscible.

Other Solubilities: No data.

Boiling Range: 212 °F IBP (ASTM D 86)

Freezing/Melting Point: NA

Viscosity: A heavy consistency 500,000 cps @ 77°F

Refractive Index: No data.

Surface Tension: No data.

% Volatile: <55%

Evaporation Rate: No data

Section 10 - Stability and Reactivity

Stability: This product is stable under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Strong oxidizing agents.

Conditions to Avoid: Do not store near open flame. Do not freeze.

Hazardous Decomposition Products: Thermal oxidative decomposition of this product may produce carbon dioxide or monoxide, and sulfur oxides.

Section 11- Toxicological Information

Toxicity Data:*

Eye Effects: Irritation results from vapor or liquid contact.

Skin Effects: See Chronic effects.

Acute Inhalation Effects:

Short Term Inhalation Limits: No data.

Acute Oral Effects:

Biocides; LD₅₀ = 770 mg/kg (rat).

Chronic Effects: Prolonged and repeated skin contact may result in skin disorders.

Carcinogenicity: Not a known human carcinogen.

Mutagenicity: No data..

Teratogenicity: No data.

* See NIOSH for additional toxicity data.

Section 12 - Ecological Information

Ecotoxicity: No data.

Environmental Fate

Environmental Transport: No data.
Environmental Degradation: No data.
Soil Absorption/Mobility: No data.

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.
Disposal Regulatory Requirements: Waste product should not be a characteristic hazardous waste under RCRA guidelines. Follow appropriate testing procedures to determine if the waste should be classified as a Hazardous Waste. Follow Federal, state, and local regulations for disposal of waste.
Container Cleaning and Disposal: Recommend using a non-hazardous solvent to remove the product. Follow Federal, state, and local regulations for disposal of the waste material, regardless of its waste classification.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

| | | |
|--|--|---|
| Shipping Name: Asphalt Emulsion (Contains Oil) | Packaging Authorizations (173.***) | Quantity Limitations |
| Shipping Marking: NA | a) Exceptions: NA | a) Passenger, Aircraft, or Passenger Railcar: NA |
| Hazard Class: NA | b) Non-bulk Packaging: NA | b) Cargo Aircraft Only: NA |
| ID No.: NA | c) Bulk Packaging: NA | |
| Packing Group: NA | | Vessel Stowage Requirements |
| Label: NA | | a) Vessel Stowage: NA |
| Special Provisions (172.102): NA | | b) Other: NA |

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed
 RCRA Hazardous Waste Classification (40 CFR 261): This material is not hazardous due to characteristics.
 CERCLA: Not listed.
 CERCLA Reportable Quantity (RQ): This material is not a listed hazardous substance and does not have a reportable quantity. However, if spilled into waters of the U.S., it may be reportable under the Clean Water Act.
 SARA 311/312 Codes:

| | |
|-------------------|----|
| Fire | No |
| Pressure | No |
| Reactivity | No |
| Immediate (acute) | No |
| Delayed (chronic) | No |

SARA Toxic Chemical: Not listed

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed

TSCA (40 CFR 710): All components of this product are in compliance with the Toxic Substance Control Act.

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1 thru Z-3): This product is not listed as an air contaminant

OSHA Specifically Regulated Substance: No

State Regulations: Review applicable state regulations to determine regulatory status of this product.

Canada Regulations: All components of this product are in compliance with DSL.

Section 16 - Other Information

Prepared By: Kathy W. Sanders

Revision Notes: Revision No. 5

Additional Hazard Rating Systems: NAS Hazard Rating for Bulk Water Transportation of Asphalt: Fire - 1; Health - 2; Water Pollution - 1, Reactivity - 0. Rating for Naphtha is not listed.

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